

Research Article

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Some vernal Lepidoptera of SE Turkey, faunistical results of a short trip made in 2017 with some taxonomic and bionomic notes

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Abstract: Some vernal Lepidoptera of SE Turkey, faunistical results of a short trip made in 2017 with some taxonomic and bionomic notes. *Cesa News* 133: 1-16, 26 figs.

Totally 59 species of 13 families, obtained during spring trip in 2017, are listed. The identity of *Altenia* specimens collected from South Turkey is discussed. One species is reported as new to the fauna of Turkey. Similarly, 27 species are new to İçel Province, while 3 species new to Urfa Province. Notes and illustration on a caterpillar of *Lasiocampa* are given. Male genitalia and tympanal organs of some species are illustrated.

Keywords: Lepidoptera, İçel, Urfa, fauna, Turkey.

In order to purchase an housing as a station for the local Cesa Collection, covering some southern provinces of Turkey, *i.e.*, İçel (33), Adana (01), Antalya (07), Karaman (70), and Konya (42), the authors realized a short trip to İçel province in late March of 2017. Apart from the planned aim of this trip, the authors found opportunities observing and collecting some material during their travel.

The materials collected are identified by the authors mostly at the specific level, by using the resources of the Cesa info-system (reference collection, digital archives, library, etc.), and currently housed in the new branch of the Cesa² Collection, called briefly as “Cesa Coll.-33”.

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The collecting places and their codes are given below:

İçel Prov. (33):	Anamur (33A):	Abandoned quarry "taşocağı", 210m. (33Ac) Alaköprü 105m (33Ak) Melleç (33Ah) Anıtlı (33Ai)
Urfa Prov. (63):	Birecik (63B):	3km NE of Mezra 390m (63Ba).

Annotated list of the species recorded

In the following text, totally 291 specimens of 59 species of the vernal Lepidoptera are identified and listed. Among them 14 species are the butterflies. Moth species belong to 9 families.

Butterflies

Below, 9 butterfly species from Anamur (İçel Prov.), and 7 species from Birecik (Urfa Prov.) are given alphabetically with their label information.

Argynniidae

1. ***Vanessa (s.str.) atalanta* (Linnaeus,1758)**

Material observed: S. Turkey, İçel Province, Anamur, Alaköprü 105m (33Ak) 31 3 2017, a single specimen in flight, on a sunny day after hibernation, M. Kemal & A.Koçak.

2. ***Vanessa cardui* (Linnaeus,1758)**

Material observed: S. Turkey, Urfa Province, Birecik, 3km NE of Mezra 390m (63Ba), 25 3 2017, a single specimen, probably among the members of the migrant populations of the year 2017, M. Kemal & A.Koçak leg.

Lycaenidae

3. ***Glaucopsyche (s.str.) alexis* (Poda,1761)**

Material observed: S. Turkey, İçel Province, Anamur, Anıtlı 150m (33Ai), 29 3 2017, 2♂, M. Kemal & A.Koçak leg.

4. ***Leptotes pirithous* (Linnaeus,1767)**

Material studied: S. Turkey, İçel Province, Anamur, Anıtlı 150m (33Ai), 29 3 2017, 1♀, M. Kemal & A.Koçak leg.

5. ***Lycaena (s.str.) phlaeas* (Linnaeus,1761)**

Material studied: S. Turkey, İçel Province, Anamur, Anıtlı 150m (33Ai), 29 3 2017, 1♂, M. Kemal & A.Koçak leg.

6. ***Polyommatus (s.str.) icarus* (Rottemburg,1775)**

Material observed: S. Turkey, Urfa Province, Birecik, Mezra 3km NE 390m 25 3 2017, 2♂, M. Kemal & A.Koçak leg.

7. ***Tomares callimachus* (Eversmann,1848)**

Material observed: S. Turkey, Urfa Province, Birecik, Mezra 3km NE 390m 25 3 2017, 2♂, M. Kemal & A.Koçak leg.

Apparently the population of this species is restricted to very narrow steppe patches between the cultivated lands, where the larval food-plants *Onobrychis* spp. survive.

²<http://grbio.org/cool/eaaz-xyfc>

Pieridae**8. *Anthocharis cardamines* (Linnaeus,1758)**

Material studied: S. Turkey, İçel Province, Anamur, Anıtlı 150m (33Ai), 29 3 2017, 1♂, M. Kemal & A.Koçak leg.

9. *Colias (Eriocolias) crocea* (Fourcroy,1785)

Material studied: S. Turkey, Urfa Province, Birecik, Mezra 3km NE 390m 25 3 2017, 1♂, M. Kemal & A.Koçak leg.; İçel Province, Anamur, Anıtlı 150m (33Ai), 29 3 2017, 1♂, M. Kemal & A.Koçak leg.

10. *Pieris (Artogeia) ergane* (Geyer,[1828])

Material observed: S. Turkey, Urfa Province, Birecik, Mezra 3km NE 390m 25 3 2017, 1♂, M. Kemal & A.Koçak leg.

11. *Pieris (Artogeia) rapae* (Linnaeus,1758)

Material observed: S. Turkey, Urfa Province, Birecik, Mezra 3km NE 390m 25 3 2017, 3♂, M. Kemal & A.Koçak leg.; İçel Province, Anamur, Anıtlı 150m (33Ai), 29 3 2017, 1♂, M. Kemal & A.Koçak leg.

12. *Pieris (s.str.) brassicae* (Linnaeus,1758)

Material studied: S. Turkey, İçel Province, Anamur, Anıtlı 150m (33Ai), 29 3 2017, 1♂, M. Kemal & A.Koçak leg.

13. *Pontia edusa* (Fabricius,1777)

Material observed: S. Turkey, Urfa Province, Birecik, Mezra 3km NE 390m 25 3 2017, 1♂, M. Kemal & A.Koçak leg.

Satyridae**14. *Ypthima asterope* (Klug,1832)**

Material observed: S. Turkey, İçel Province, Anamur, Melleç 60m (33Ah), 29 3 2017, 2♂; Anıtlı 150m (33Ai), 29 3 2017, 1♂, M. Kemal & A.Koçak leg.

Moths

Below, 39 moth species from Anamur (İçel Prov.), and 8 species from Birecik (Urfa Prov.) are given in a common list. Among them, one species is new to the fauna of Turkey. Moreover, 27 species are new to İçel Province, while 3 species new to Urfa Province. New records are based upon the publication of the authors (Koçak & Kemal, 2009).

Arctiidae**15. *Arctia (Eucharia) festiva* (Hufnagel,1766)**

Adults nocturnal, vernal, univoltine, common and widely distributed in Turkey.

Material observed: S. Turkey, Urfa Province, Birecik, Mezra 3km NE 390m 25 3 2017, 1♂, M. Kemal & A.Koçak leg.

Gelechiidae**16. *Altenia* aff. *modesta* (Danilevsky,1955)**

The genus *Altenia* was established by Sattler (1960). The diagnostic characters of this genus is in brief as follows: Abdominal sternit viii broad, tergite viii tongue-shaped with a pair of coremata. In the male genitalia, uncus bifid with long slender lobes. Gnathos absent. Aedeagus broad and stout (**Fig. 1**) (see also Huemer & Karsholt, 1999: 99).

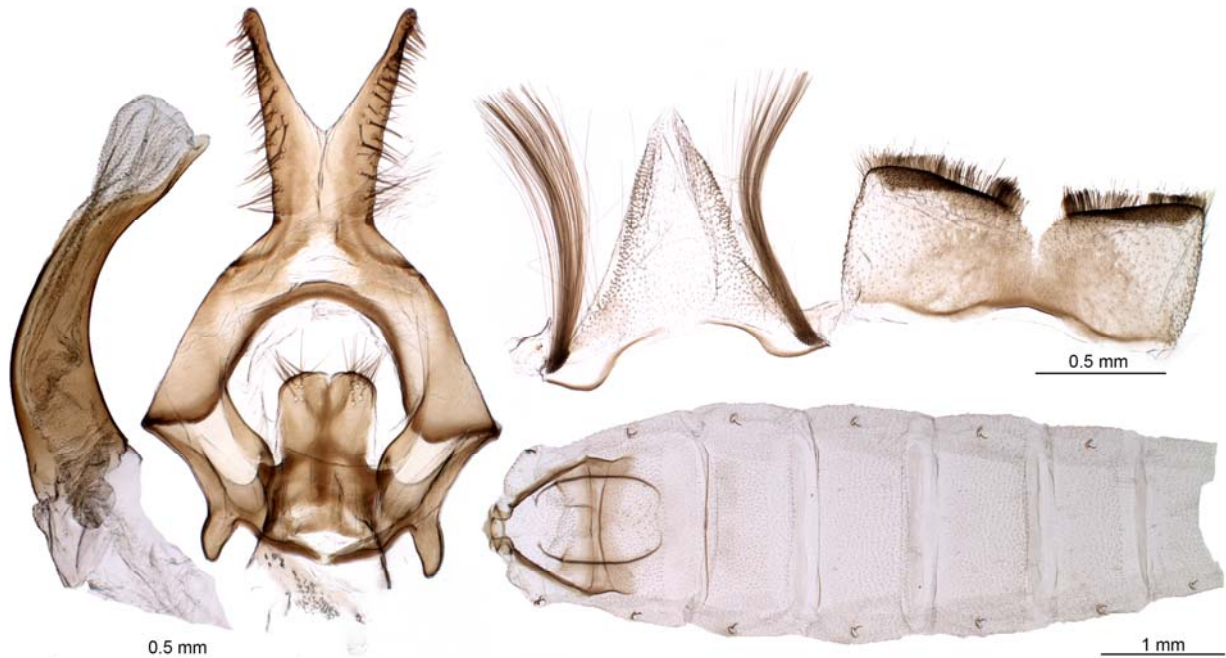
The species collected in İçel (Anamur) belongs to this genus. The genus *Altenia* is represented by 7 species: *elsneriella* Huemer & Karsholt, 1999, *inscriptella* Chr. 1882, *mersinella* Stgr., 1879*, *modesta* Danil., 1955, *perspersella* Wck., 1862 (type-species of the genus), *scriptella* Hbn., 1796*, and *wagneriella* Rbl., 1926*. Three of them (marked with *) are known from Turkey (Huemer & Karsholt, 1999, 2001).

The male genitalia of the species from Anamur shows somewhat similarity to *modesta* at the first glance. Especially the shape of the bifid uncus differs it from the closely related species *wagneriella*. However, there are some important discrepancies between *modesta* and the population from Anamur, i.e., absence of apical tooth of aedeagus, less curved aedeagus, emargination of the tegumen anteriorly, shape of signum on bursa copulatrix, quadrate and short-toothed serrate margin instead of cross-shaped and large toothed serrate margin. *Altenia modesta* is currently represented from North Africa, Balkans, Caucasus to Central Asia, without subspecies. Unknown in Turkey. Evaluation of the important morphological differences of the Anamur population mentioned above is still under taxonomical examination for a separate paper in future.

The specimens, collected by the authors in the past from Şirvan (Siirt Province) and Malatya, are similar to Anamur specimens. The species was reported as a pest of *Pistacia vera* (Anacardiaceae) (Danilevsky, 1955). Therefore, its distribution in Turkey depends on the distribution of the native or cultivated *Pistaciae* in South Turkey. There is no pest record of this species in Turkey so far.

For the time being, the species is evaluated here as new record to the fauna of Turkey and also İçel, Siirt and Malatya provinces! The tergite, sternite, coremata and the abdominal skin of this species are illustrated here for the first time (Fig. 2).

Material studied: Siirt Province: Şirvan: Şirvan city 1000m (56Fa), 18 4 2015, 1♀, M. Kemal & A.Koçak leg., Maden crossing 960m (56Fb) 17 4 2015, 3♂ 3♀, M. Kemal & A.Koçak leg.; Nergisli 630m (56Fv) 18 4 2015, 1♂ 1♀, M. Kemal & A.Koçak leg.; Malatya Province: Beydağı NP 1190m (44Lc) 26 4 2015, 1♂, M. Kemal & A.Koçak leg.; İçel Province: Anamur: Alaköprü 105m (33Ak) 31 3 2017, 13♂♀, M. Kemal & A.Koçak leg. GP2645♀, GP2646♀, GP2648♂; Taşocağı 210m (33Ac) 29 3 2017, 8♂♀, M. Kemal & A.Koçak leg.



Figs. 1, 2 - *Altenia modesta*: Male genitalia, tergite viii, coremata, sternite viii, abdominal skin. GP2648. M. Kemal (Cesa)

17. ***Metzneria aprilella* (Herrich-Schäffer, [1854])**

Material studied: S. Turkey, İçel Province, Anamur, Alaköprü 105m (33Ak) 31 3 2017, 1♂, Taşocağı 210m (33Ac) 29 3 2017 2♂, M. Kemal & A.Koçak leg.

Geometridae**18. *Catarhoe mosulensis* (Schawerda, 1924) (Figs. 3-5)**

The male genitalia, coremata and the tympanal organ are illustrated here for the first time (Figs. 3, 4).

Material observed: S. Turkey, Urfa Province, Birecik, Mezra 3km NE 390m 25 3 2017, 1♂, M. Kemal & A. Koçak leg.

New to the fauna of Urfa Province!



Figs. 3 - 5— *Catarhoe mosulensis*: Male genitalia and coremata. GP2655 (above). Tympanal organs (before and after preparation) (bottom, left). Upperside of the male, wingspan: 22.5 mm (before dissection). M. Kemal (Cesa)

19. *Coenotephria ablutaria* (Boisduval, 1840) (Figs. 6-8)

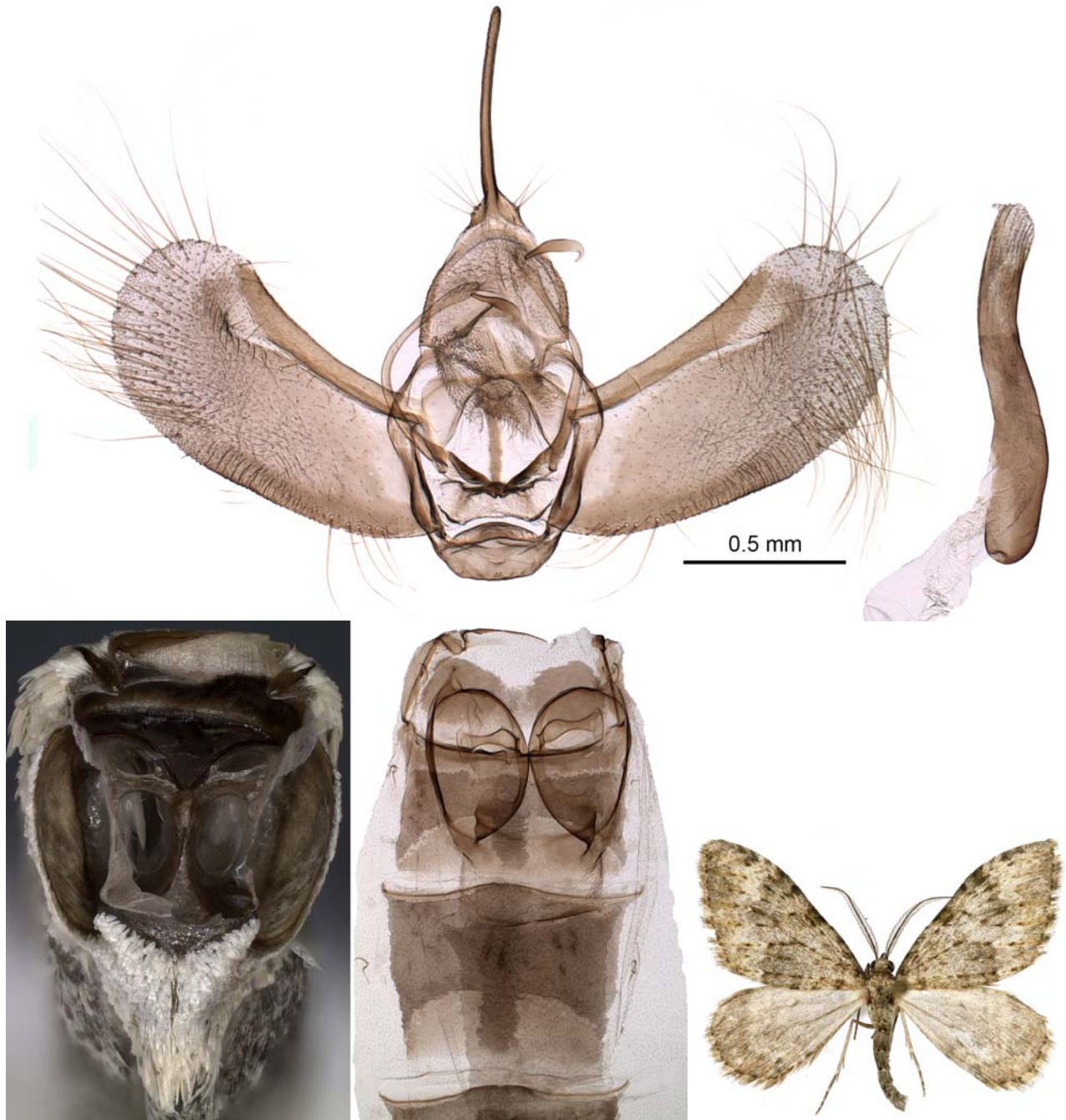
An East Mediterranean species, multivoltine (Hausmann & Viidalepp, 2012). Common in the studying area.

Recently, this species was reported by the authors from Bahçesaray (Van Province, East Turkey) (Kemal & Koçak, 2016b).

The male genitalia, coremata and the tympanal organ are illustrated here (**Figs. 6, 7**).

New to İçel Province!

Material studied: S. Turkey, İçel Province, Anamur, Alaköprü 105m (33Ak) 31 3 2017, 4♂, Taşocağı 210m (33Ac) 29 3 2017 13♂♀, GP2655♂. M. Kemal & A.Koçak leg.



Figs. 6-8 – *Coenoteophria ablutaria*: Male genitalia. GP2655 (above). Tympanal organs (before and after preparation) (bottom, left). Upperside of the male, wingspan: 24 mm (before dissection). M.Kemal (Cesa)

20. *Cyclophora suppunctaria* (Zeller, 1847) (Figs. 9, 10)

Material studied: S. Turkey, İçel Province, Anamur, Alaköprü 105m (33Ak) 31 3 2017, 2♂, GP2650♂. M. Kemal & A.Koçak leg.

New to İçel Province!

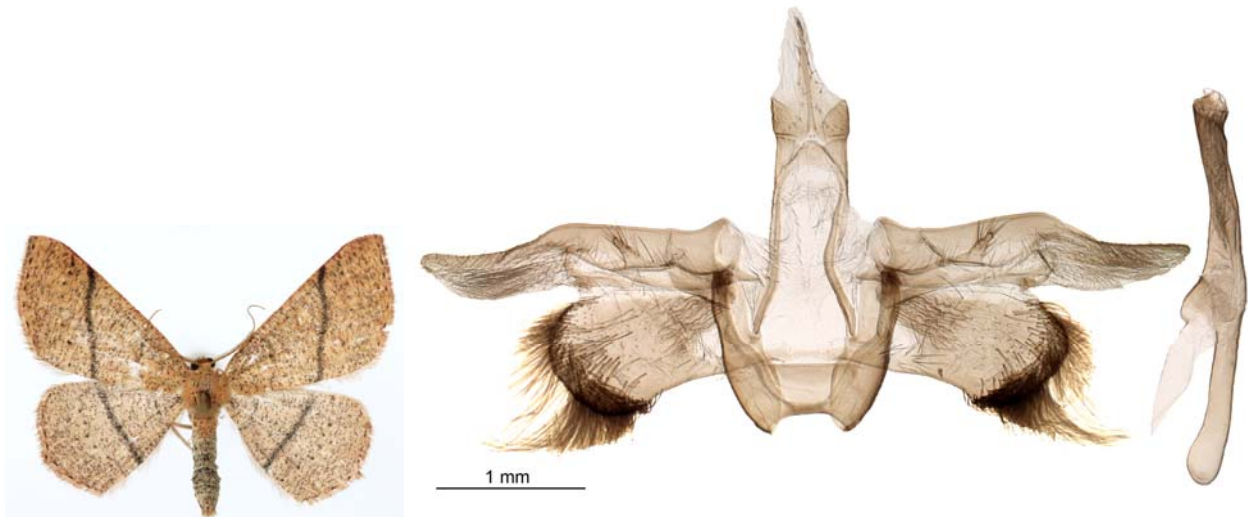
21. *Dasycorsa modesta* (Staudinger, 1879)

Material studied: S. Turkey, İçel Province, Anamur, Alaköprü 105m (33Ak) 31 3 2017, 1♂
1♀, M. Kemal & A.Koçak leg.
New to İçel Province!

22. *Eupithecia* spp.

Material: S. Turkey, İçel Province, Anamur, Alaköprü 105m (33Ak) 31 3 2017, 17♂♀,
Taşocağı 210m (33Ac) 29 3 2017, 4♂♀, M. Kemal & A.Koçak leg.

The genus is represented in Turkey by 115 species. The species of this genus will be separately studied.



Figs. 9, 10 - *Cyclophora suppunctaria*. Upperside of the male, wingspan: 25mm (before dissection). Male genitalia GP2650. İçel Province, Anamur Alaköprü 105m (33Ak). M. Kemal (Cesa)

23. *Gymnoscelis rufifasciata* (Haworth, 1809)**(Figs. 11-13)**

A worn male specimen of the tribe *Eupitheciini* was captured in Anamur in late March. Its identity was only possible after examining the male genitalia. A widely distributed species in Europe and in Turkey (Mironov, 2003). However, the occurrence of this species in İçel Province has not been expressed in writing so far.

New to the fauna of İçel Province!

The tympanal organ of this species is illustrated here for the first time (**Fig.12**).

Material studied: S. Turkey, İçel Province, Anamur, Alaköprü 105m (33Ak) 31 3 2017, 1♂
(ws 17mm), GP2658, M. Kemal & A.Koçak leg.

24. *Hyposcotis* aff. *dubitaria* (Staudinger, 1892)

Material studied: S. Turkey, İçel Province, Anamur, Taşocağı 210m (33Ac) 29 3 2017, 1♀,
M. Kemal & A.Koçak leg.

This is a common species in summer. Its specific identity of the present specimen is not certain.

25. *Idaea allongata* (Staudinger, 1898) (Figs. 14, 15)

The species was described and illustrated by Staudinger (1898) from Jerusalem. Later, Staudinger (1900) described the same species as "*Acidalia allongaria*" from Mardin [South Turkey], based upon 3 ♀♀. One year later, both names were synonymized by Staudinger (1901: 268). Recently, Seven (2016) reported this species from Batman faunistically.

The present record is new to the fauna of Urfa Province!

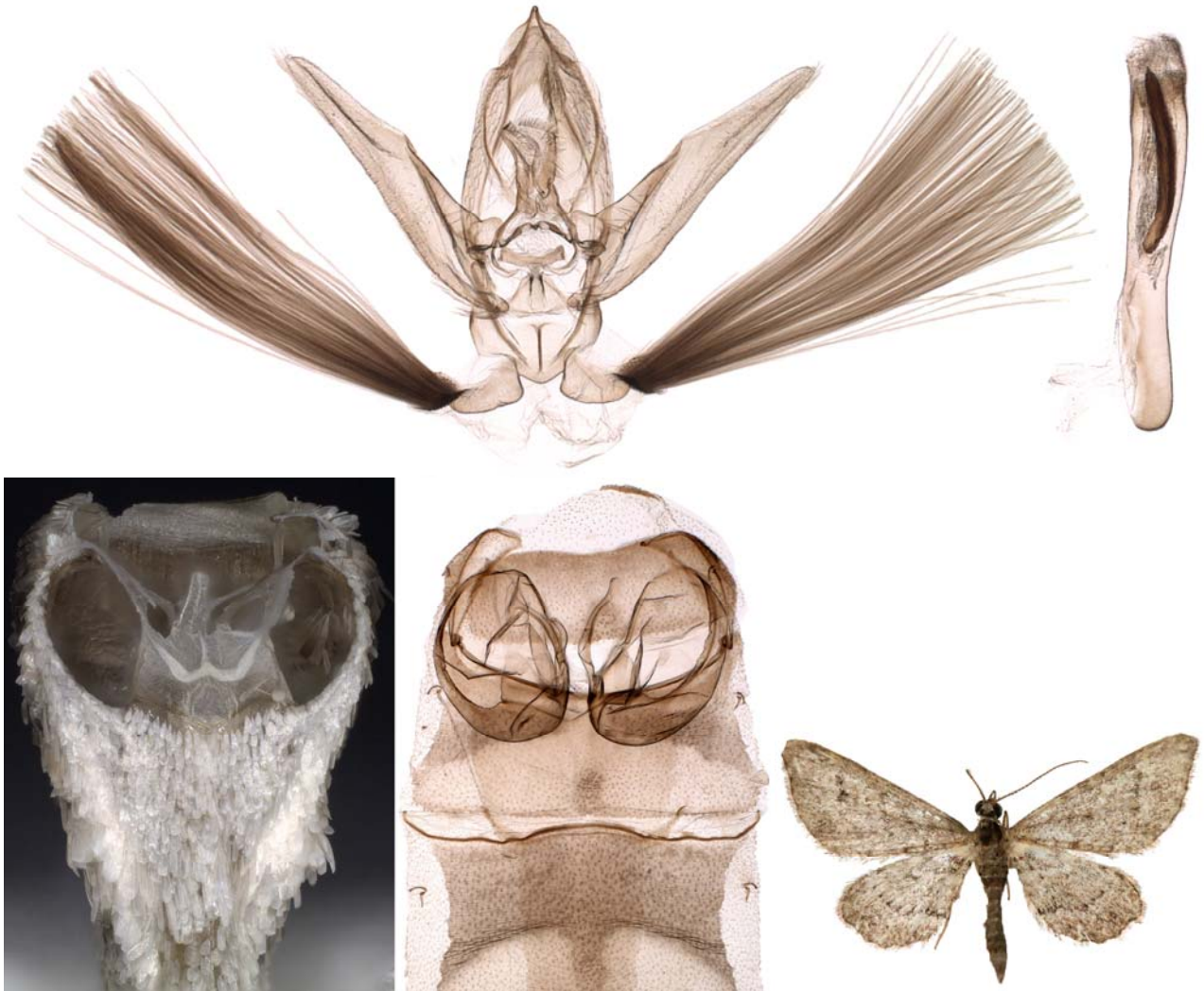
Material studied: S. Turkey, Urfa Province, Birecik, Mezra 3km NE 390m 25 3 2017, 1♂,
GP2657♂, M. Kemal & A.Koçak leg. Nocturnal.

26. ***Idaea distinctaria* (Boisduval, 1840)**

Material studied: S. Turkey, İçel Province, Anamur, Alaköprü 105m (33Ak) 31 3 2017, 1♀, M. Kemal & A. Koçak leg.

A widely distributed species in the Mediterranean coasts in Europe and Turkey (Hausmann, 2004). However, the occurrence of this species in İçel Province has not been expressed in writing so far.

New to the fauna of İçel Province!



Figs. 11 - 13 - *Gymnoscelis rufifasciata*: Male genitalia with coremata (above), tympanal organ (before and after preparation), GP2658 (below left). Upperside of male, wingspan: 17mm (before dissection) (below right). İçel Province, Anamur. M. Kemal (Cesa)



Figs. 14, 15 - *Idaea allongata*: Male genitalia GP2657. Upperside of the male, wingspan: 20.5mm (before dissection). Urfa Province, Birecik, Mezra. M. Kemal (Cesa)

27. *Lithostege palaestinensis* Amsel, 1935

Material observed: S. Turkey, Urfa Province, Birecik, Mezra 3km NE 390m 25 3 2017, 2♂, M. Kemal & A.Koçak leg. Nocturnal.

28. *Myinodes shohami* Hausmann, 1994

Material studied: S. Turkey, İçel Province, Anamur, Alaköprü 105m (33Ak) 31 3 2017, 1♂, M. Kemal & A.Koçak leg.
New to İçel Province!

29. *Oulobophora externaria* (Herrich-Schäffer, [1848])

One of the commonest species in the spring season. Univoltine.

Material studied: S. Turkey, İçel Province, Anamur, Alaköprü 105m (33Ak) 31 3 2017, 34♂♀, Taşocağı 210m (33Ac) 29 3 2017, 27♂♀, M. Kemal & A.Koçak leg.
New to İçel Province!

30. *Pseudopanthera syriacata* (Guenée, 1858)

Material studied: S. Turkey, İçel Province, Anamur, Taşocağı 210m (33Ac) 29 3 2017 2♂ [crepuscular and nocturnal], M. Kemal & A.Koçak leg.
New to İçel Province!

31. *Xanthorhoe fluctuata* (Linnaeus, 1758)

Material studied: S. Turkey, İçel Province, Anamur, Alaköprü 105m (33Ak) 31 3 2017, 2♂, Taşocağı 210m (33Ac) 29 3 2017 1♂, M. Kemal & A.Koçak leg.
New to İçel Province!

Gracillariidae

32. *Caloptilia alchimiella* (Scopoli, 1763).

Material studied: S. Turkey, İçel Province, Anamur, Alaköprü 105m (33Ak) 31 3 2017, 1♂, Taşocağı 210m (33Ac) 29 3 2017 2♂, M. Kemal & A.Koçak leg.
New to İçel Province!

33. *Phyllonorycter abrasella* (Duponchel, 1843)

Material studied: S. Turkey, İçel Province, Anamur, Taşocağı 210m (33Ac) 29 3 2017 1♂, M. Kemal & A.Koçak leg.
New to İçel Province!

Lasiocampidae**34. *Lasiocampa* sp. (Fig. 16)**

A caterpillar of the 3rd stage was found by the first author on *Rubus sanctus* (Rosaceae)³ at 3km NE of Mezra (390m) streamside on 24 3 2017. The caterpillar feeds on the foliage of *Rubus* preferably by nights, extremely slow or motionless by days. The latest image of the caterpillar of the 4th stage is given below. It looks like to the genus *Lasiocampa*, but its species is still uncertain. By the way, the species *trifolii* and *eversmanni* are out of discussion, but presumedly *grandis*.

Noctuidae**35. *Agrotis ipsilon* (Hufnagel,1766)**

Very common especially in cultivated areas. Also an important pest.

Material studied: S. Turkey, Urfa Province, Birecik, Mezra 3km NE 390m 25 3 2017, 1♂, M. Kemal & A.Koçak leg.

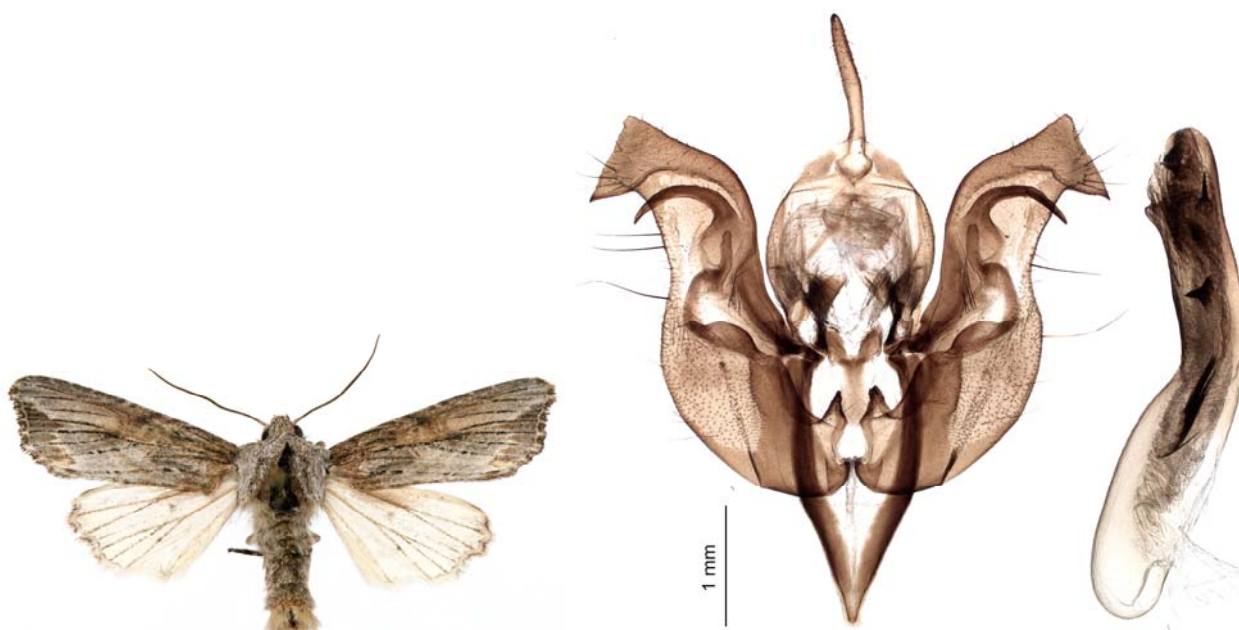
36. *Agrotis puta* (Hübner,[1803])

Material studied: S. Turkey, Urfa Province, Birecik, Mezra 3km NE 390m 25 3 2017, 1♂; İçel Province, Anamur, Alaköprü 105m (33Ak) 31 3 2017, 3♂, M. Kemal & A.Koçak leg.
New to İçel Province!



Fig. 16 – Caterpillar of *Lasiocampa* sp. During the captivity, only its natural food-plant *Rubus sanctus* was given. The present image was taken on 16 4 2017, with the body length ca. 80mm, width ca. 8mm, M. Kemal (Cesa)

³ This is the sole *Rubus* species in the area (Atamov,V et al., 2007, Flora of Mezra City (Birecik, Şanlıurfa-Turkey). *Asian J. Plant Sci.* 6 (2): 225-238.



Figs. 17, 18 - *Egira tibori*. Upperside of male, wingspan: 36mm (before dissection). GP2653. Male genitalia. İçel Prov. Anamur, Alaköprü. M. Kemal (Cesa)

37. *Calophasia platyptera* (Esper,[1788])

This species was previously reported from Kulp (Diyarbakır Pr.) (Kemal, Koçak & Aydın, 2011).

Material studied: S. Turkey, İçel Province, Anamur, Alaköprü 105m (33Ak) 31 3 2017, 1♂, M. Kemal & A.Koçak leg.

38. *Cleonymia (Serryvania) opposita* (Lederer,1870)

Adults nocturnal, vernal, univoltine, common and widely distributed in Turkey.

Material observed: S. Turkey, Urfa Province, Birecik, Mezra 3km NE 390m 25 3 2017, 2♂, M. Kemal & A.Koçak leg.

New to the fauna of Urfa Province!

39. *Egira tibori* Hreblay,1994 (Figs. 17, 18)

Hreblay (1994) described and reported two *Egira* species, *fatima* and *tibori* from İçel Province “8km W of Sipaheli”, now in Aydıncık district in their type-series.

Material studied: S. Turkey, İçel Province, Anamur, Alaköprü 105m (33Ak) 31 3 2017, 13♂♀, GP2653♂, M. Kemal & A.Koçak leg.

40. *Lithophane ledereri* (Staudinger,1892) (Fig. 19)

Material studied: S. Turkey, İçel Province, Anamur, Alaköprü 105m (33Ak) 31 3 2017, 1♂, M. Kemal & A.Koçak leg.

New to İçel Province!

41. *Minucia bimaculata* Osthelder,1933

Material studied: S. Turkey, İçel Province, Anamur, Alaköprü 105m (33Ak) 31 3 2017, 1♂, Taşocağı 210m (33Ac) 29 3 2017 1♂, M. Kemal & A.Koçak leg.

42. *Nola (s.str.) cicatricalis* (Treitschke,1835)

Material studied: S. Turkey, İçel Province, Anamur, Alaköprü 105m (33Ak) 31 3 2017, 11♂♀, Taşocağı 210m (33Ac) 29 3 2017 7♂♀, M. Kemal & A.Koçak leg.

Sympatric with the latter species.

43. ***Nola (s.str.) ronkayorum* Beshkov, 2006**

Material studied: S. Turkey, İçel Province, Anamur, Alaköprü 105m (33Ak) 31 3 2017, 12♂♀, Taşocağı 210m (33Ac) 29 3 2017 20♂♀, M. Kemal & A.Koçak leg.

Common and apparently new to İçel Province! The identity of this species from the nearest species *confusalis* H.-S. seems doubtful.

44. ***Orthosia (Monima) cerasi* (Fabricius, 1775)**

Material studied: S. Turkey, İçel Province, Anamur, Alaköprü 105m (33Ak) 31 3 2017, 1♂ 2♀, M. Kemal & A.Koçak leg.

Variation in colouration is remarkable. New to İçel Province!



Figs. 19, 20 – Two vernal species of Noctuidae: *Lithophane ledereri*, upperside of male, wingspan: 41mm (left). *Perigrapha rorida*, upperside of female, wingspan: 41mm (right), M. Kemal (Cesa)

45. ***Orthosia (s.str.) incerta* (Hufnagel, 1766)**

Material studied: S. Turkey, İçel Province, Anamur, Taşocağı 210m (33Ac) 29 3 2017, 1♂, M. Kemal & A.Koçak leg.

New to İçel Province!

46. ***Perigrapha (Opacographa) rorida* (Frivaldsky, 1835) (Fig. 20)**

Material studied: S. Turkey, İçel Province, Anamur, Alaköprü 105m (33Ak) 31 3 2017, 1♀, M. Kemal & A.Koçak leg.

Notodontidae47. ***Harpyia milhauseri* (Fabricius, 1775)**

Material studied: S. Turkey, İçel Province, Anamur, Alaköprü 105m (33Ak) 31 3 2017, 1♂, M. Kemal & A.Koçak leg.

Oecophoridae48. ***Diurnea fagella* ([Denis & Schiffermüller], 1775)**

Material studied: S. Turkey, İçel Province, Anamur, Taşocağı 210m (33Ac) 29 3 2017, 1♂ [wingspan: 32mm], M. Kemal & A.Koçak leg.

This species is also classified under the family name *Chimabachidae*. Brachypterous female unknown to us. This species was first reported from Bursa (Turkey) by Mann (1862: 392) 155 years ago as “*Chimabacche fagella* S.V. Im April nicht selten an Baumstämmen.” The present record from Anamur is the second one in Turkey and very far from Bursa in NW Turkey, southeastwards ca. 570km straight.

New to İçel Province!

49. *Agonopterix* sp.

Only a worn male was captured in late March. Its specific identity is still under examination (P. Buchner, pers. comm.).

Material studied: S. Turkey, İçel Province, Anamur, Taşocağı 210m (33Ac) 29 3 2017 1♂, GP2654♂, M. Kemal & A. Koçak leg.

Pyralidae**50. *Dioryctria mendacella* (Staudinger, 1859)**

Material studied: S. Turkey, İçel Province, Anamur, Alaköprü 105m (33Ak) 31 3 2017, 2♂, M. Kemal & A. Koçak leg.
New to İçel Province!

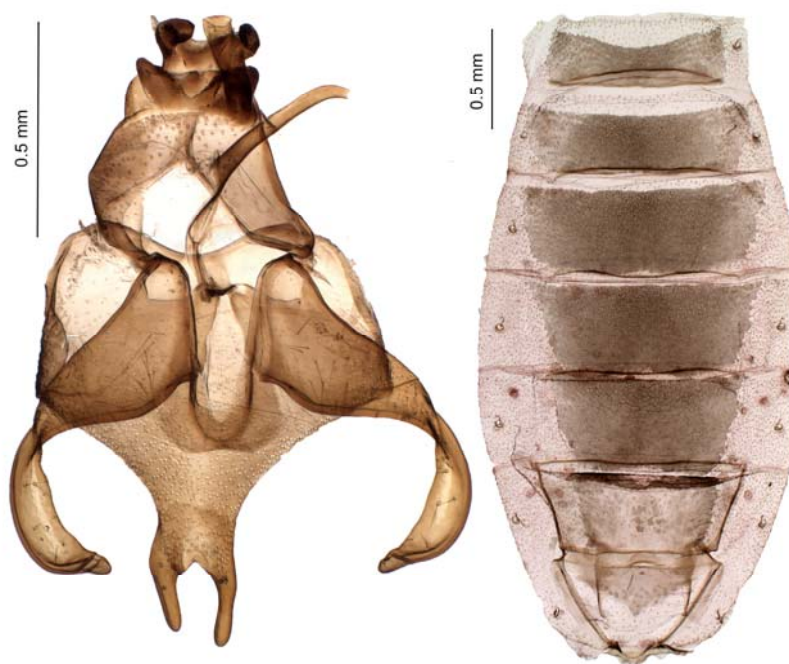
51. *Elegia fallax* (Staudinger, 1881)

Material studied: S. Turkey, İçel Province, Anamur, Alaköprü 105m (33Ak) 31 3 2017, 2♂, M. Kemal & A. Koçak leg.
New to İçel Province!

Scythridae**52. *Scythris limbella* (Fabricius, 1775) (Figs. 21, 22)**

Material studied: S. Turkey, İçel Province, Anamur, Alaköprü 105m (33Ak) 31 3 2017, 1♂, M. Kemal & A. Koçak leg. GP2651♂.

This is a little known species in Turkey (Amasya, Bursa and İçel).



Figs. 21, 22 – *Scythris limbella*. GP2651. Male genitalia and abdominal skin. İçel Province, Anamur, Alaköprü. M. Kemal (Cesa)

Thyatiridae**53. *Asphalia ruficollis* (Fabricius, 1787)**

Material studied: S. Turkey, İçel Province, Anamur, Alaköprü 105m (33Ak) 31 3 2017, 4♂, M. Kemal & A. Koçak leg.
New to İçel Province!

54. ***Polyploca korbi* Rebel, 1901**

Material studied: S. Turkey, İçel Province, Anamur, Alaköprü 105m (33Ak) 31 3 2017, 11♂ 3♀, Taşocağı 210m (33Ac) 29 3 2017 1♂, M. Kemal & A.Koçak leg.

This species was reported from Kulp (Diyarbakır Pr.) (Kemal, Koçak & Aydın, 2011). New to İçel Province!

Tortricidae55. ***Cochylidia heydeniana* (Herrich-Schäffer, [1851]) (Figs. 23, 24)**

Material studied: S. Turkey, İçel Province, Anamur, Alaköprü 105m (33Ak) 31 3 2017, 4♂, GP2647♂, M. Kemal & A.Koçak leg.

New to İçel Province!

56. ***Endothenia sororiana* (Herrich-Schäffer, [1851]) (Figs. 25, 26)**

Material studied: S. Turkey, İçel Province, Anamur, Alaköprü 105m (33Ak) 31 3 2017, 6♂, Taşocağı 210m (33Ac) 29 3 2017, 5♂, GP2649♂. M. Kemal & A.Koçak leg.

This species was previously recorded from Amasya Province and Akbes in Hatay Province.

New to İçel Province!

57. ***Pammene querceti* (Gozmany, 1957)**

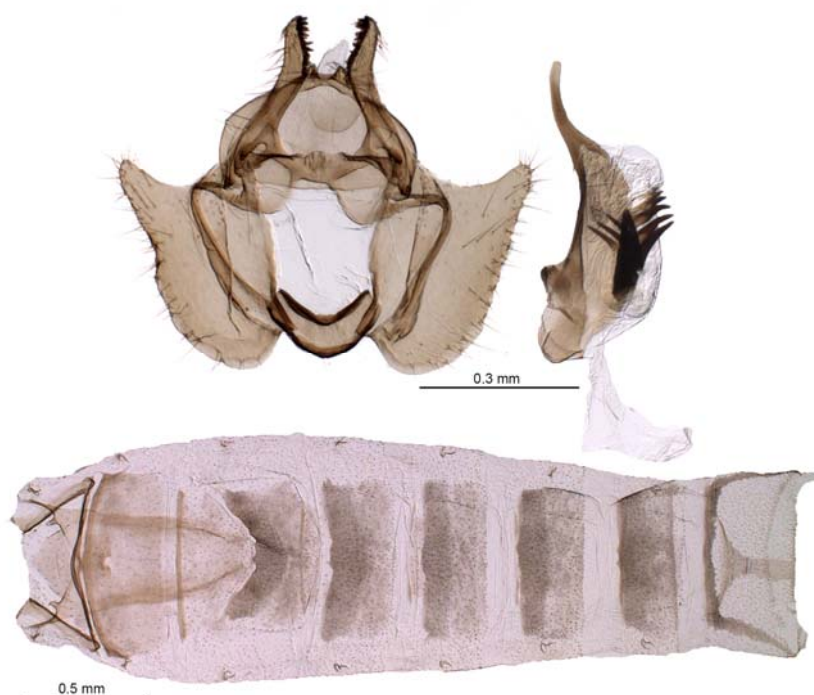
Material studied: S. Turkey, İçel Province, Anamur, Alaköprü 105m (33Ak) 31 3 2017, 1♂, M. Kemal & A.Koçak leg.

New to İçel Province! This is the second provincial record in Turkey after Şırnak Province (Kemal & Koçak, 2016a).

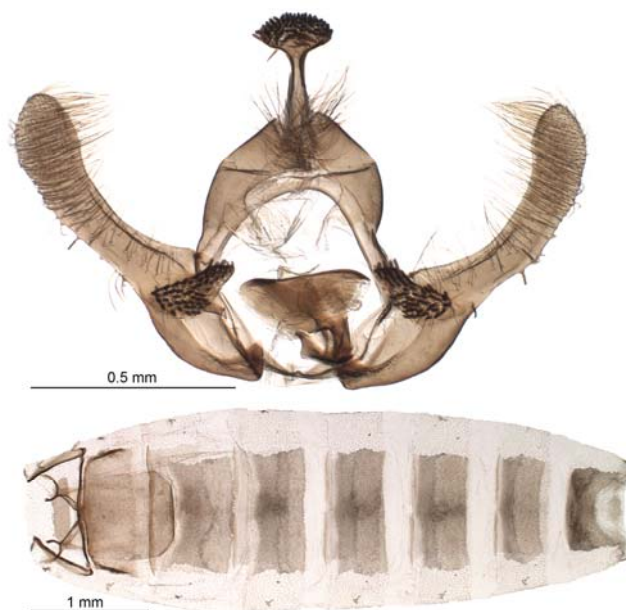
58. ***Pseudeulia asinana* (Hübner, [1799])**

Material studied: S. Turkey, İçel Province, Anamur, Alaköprü 105m (33Ak) 31 3 2017, 7♂, Taşocağı 210m (33Ac) 29 3 2017, 1♂, M. Kemal & A.Koçak leg.

Common in the spring. New to İçel Province!



Figs. 23, 24 – *Cochylidia heydeniana*. Male genitalia and abdominal skin. GP2647. İçel Province, Anamur, Alaköprü 105m (33Ak). M. Kemal (Cesa)



Figs. 25, 26 - *Endothenia sororiana*. Male genitalia and abdominal skin. GP2649. İçel Province, Anamur Alaköprü 105m (33Ak). M. Kemal (Cesa)

Yponomeutidae

59. *Phutella xylostella* (Linnaeus, 1758)

Material studied: S. Turkey, İçel Province, Anamur, Taşocağı 210m (33Ac) 29 3 2017 3♂, M. Kemal & A. Koçak leg.
Common in the spring.
New to İçel Province!

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